

# FloodCAM

The prompt detection of water ponds and flooded areas on road pavement is critical to secure people and infrastructure safety.

WaterView introduces FloodCAM, a video analytics solution for using surveillance cameras to detect hazardous accumulation of water on the road in real time, no matter if flooding is due to the effects of local heavy rainfall or river overflowing.

FloodCAM is powered by state of the art computer vision and machine learning technologies, that has been optimized to process large amounts of images in short time.

FloodCAM is able to detect flooded areas in both urban and suburban contexts, and returns valuable alerts with straight, curved and mixed roads.



Example of flooded road detection  
(red area below)



FloodCAM is the perfect tool to improve safety in a variety of situations:



Riverside and coastline roads



Tunnels and underpasses



Cultural heritage and archaeological sites

FloodCAM can be used with any IP surveillance camera with a Full HD minimum resolution, and performs server side analytics that can be easily interfaced with third party solutions like Video Management Systems, Intelligent Transport Systems or Decision Support Systems.

FloodCAM outputs are multichannel notifications that contain information about the name and position of the flooded road, as well as the percentage of the road branch submerged by water.



In the era of smart cities, smart roads, smart everything, why not having smart weather and environmental monitoring, to automatically provide meaningful weather insights and make our lives better?

This is what we do everyday at WaterView, by developing groundbreaking technologies that look from a completely new perspective what everyone else considers a simple camera.

WaterView disrupted the market of weather monitoring technologies with WeatherCAM, a set of proprietary computer vision libraries for using images shot by ordinary cameras to track:



#### **RAINFALL**

Gauge rainfall intensity with 5 minute resolution



#### **SNOWFALL**

Detect snowfall inception, duration and settling



#### **HAIL**

Detect hail presence and severity



#### **TEMPERATURE**

Track environmental temperature variations over time



#### **VISIBILITY**

Assess visibility drops due to fog, smoke, precipitations or sand

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